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## WHAT IS CLAIMED IS:

- A substantially pure or isolated polypeptide comprising a segment exhibiting sequence homology to a corresponding portion of a mature protein selected from the group consisting of:
  - i) TECK;
  - ii) MIP-3 $\alpha$ ;
  - iii) MIP-3 $\beta$ ;
- 10 iv) DC CR; and
  - v) M/DC CR;

wherein said homology is at least about 70% identity and said portion is at least about 25 amino acids.

- 15 2. The protein of Claim 1, further comprising a second segment exhibiting:
  - a) at least about 90% identity over at least 9 amino acids; or
  - b) at least about 80% identity over at least 17 amino acids.
  - 3. The polypeptide of Claim 1, wherein said polypeptide:
    - a) is from a warm blooded animal selected from the group of birds and mammals, including a mouse or human;
      - b) comprises a natural sequence from Tables 1 through 5;
      - c) exhibits a post-translational modification pattern distinct from a natural form of said polypeptide;
      - d) is made by expression of a recombinant nucleic acid;
      - e) comprises synthetic sequence;
      - f) is detectably labeled;
- 35 g) is conjugated to a solid substrate;
  - h) is conjugated to another chemical moiety;
  - i) is a fusion protein;

- j) is in a denatured conformation, including detergent denaturation;
- k) further comprises an epitope tag;
- 1) is an immunogenic polypeptide;
- m) has a defined homogeneous molecular weight;
  - n) is useful as a carbon source;
  - o) is an allelic variant of SEQ ID NO: 2, 4, 6, 8, 10, or 12;
  - p) is a 3-fold or less substituted form of a natural sequence;
  - q) is in a sterile composition;
  - r) is in a buffered solution or suspension;
  - s) is in a regulated release device;
  - t) comprises a post-translational modification;
- u) is in a cell; or
  - v) is in a kit which further comprises instructions for use or disposal of reagents therein.
- 4. An isolated or recombinant nucleic acid encoding said protein of Claim 1, where said portion consists of sequence from the coding region of SEQ ID NO: 1, 3, 5, 7, 9, or 11.
- 5. The nucleic acid of Claim 4, wherein said nucleic acid:
  - a) exhibits at least about 80% identity to a natural cDNA encoding said segment;
  - b) is in an expression vector;
  - c) further comprises a promoter;
- 30 d) further comprises an origin of replication;
  - e) is from a natural source;
  - f) is detectably labeled;
  - g) comprises synthetic nucleotide sequence;
  - h) is less than 6 kb;
- i) is from a mammal;
  - j) comprises a natural full length mature coding sequence;

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- k) is in a kit, which also comprises instructions for use or disposal of reagents therein;
- is a specific hybridization probe for a gene encoding said protein;
- m) is a PCR product; or
- n) is in a cell.
- 6. A method of using a purified nucleic acid of Claim 5, comprising a step of expressing said nucleic acid to produce a protein.
  - 7. An isolated or recombinant nucleic acid which encodes at least eight consecutive residues of SEQ ID NO: 2, 4, 6, 8, 10, or 12.
  - 8. The nucleic acid of Claim 7, which encodes at least:
    - a) twelve consecutive residues from SEQ ID NO: 2, and further comprises a coding sequence of at least 17 nucleotides from SEQ ID NO: 1;
    - b) twelve consecutive residues from SEQ ID NO: 4, and further comprises a coding sequence of at least 17 nucleotides from SEQ ID NO: 3;
    - c) twelve consecutive residues from SEQ ID NO: 6, and further comprises a coding sequence of at least 17 nucleotides from SEQ ID NO: 5;
    - d) twelve consecutive residues from SEQ ID NO: 8, and further comprises a coding sequence of at least 17 nucleotides from SEQ ID NO: 7;
  - e) twelve consecutive residues from SEQ ID NO: 10, and further comprises a coding sequence of at least 17 nucleotides from SEQ ID NO: 9; or
    - f) twelve consecutive residues from SEQ ID NO: 12, and further comprises a coding sequence of at least 17 nucleotides from SEQ ID NO: 11.

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- 9. The nucleic acid of Claim 7, wherein said nucleic acid:
  - a) exhibits at least about 80% identity to a natural cDNA encoding said segment;
- b) is in an expression vector;
  - c) further comprises a promoter;
  - d) further comprises an origin of replication;
  - e) encodes a 3-fold or less substituted sequence from a natural sequence;
- 10 f) is from a natural source;
  - g) is detectably labeled;
  - h) comprises synthetic nucleotide sequence;
  - i) is less than 6 kb;
  - j) is from a mammal;
- 15 k) is attached to a solid substrate, including in a Southern or Northern blot;
  - 1) comprises a natural full length coding sequence;
  - m) is in a cell; or
  - n) is in a detection kit, which also comprises instructions for use or disposal of reagents therein.
- 10. A nucleic acid which hybridizes under stringent wash conditions of 55°C and less than 150 mM salt to the nucleic acid of Claim 7.
  - 11. The nucleic acid of Claim 10, which exhibits at least about 85% identity over a stretch of at least about 30 nucleotides to a primate sequence of SEQ ID NO: 1, 3, 5, 7, 9, or 11.
  - 12. The nucleic acid of Claim 10, wherein:
    - a) said identity is at least 90%; or
    - b) said stretch is at least 75 nucleotides.

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- 13. The nucleic acid of Claim 10, wherein:
  - a) said identity is at least 95%; or

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- b) said stretch is at least 100 nucleotides.
- 14. A binding compound comprising an antigen binding fragment from an antibody which binds to a protein of Claim5. 1.
  - 15. The binding compound of Claim 14, wherein:
    - a) said polypeptide is a mouse or human protein;
    - b) said antibody is raised against a mature peptide sequence of Tables 1 through 5;
    - c) said antibody is a monoclonal antibody;
    - d) said binding compound is attached to a solid substrate;
    - e) said binding compound is in a sterile composition;
    - f) said binding compound binds to a denatured antigen, including a detergent denatured antigen;
      - g) said binding compound is detectably labeled;
      - h) said binding compound is an Fv, Fab, or Fab2 fragment;
      - i) said binding compound is conjugated to a chemical moiety;
      - j) said binding compound is in a detection kit which also comprises instructions for use or disposal of reagents therein.

16. A cell which makes said antibody of Claim 14.

- 17. A method of purifying a polypeptide using a binding compound of Claim 14 to specifically separate said polypeptides from others.
  - 18. A method of generating an antigen-binding compound complex comprising the step of contacting a sample comprising said antigen to a sample comprising a binding compound of Claim 14.

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- 19. A method of modulating physiology or development of a cell expressing a receptor for a chemokine selected from the group selected from:
  - a) TECK;
  - b) MIP-3 $\alpha$ ; or
  - c) MIP-3 $\beta$ ;

comprising contacting said cell with a composition comprising:

- i) an agonist or mutein of said chemokine; or
- ii) an antibody antagonist of said chemokine.
  - 20. The method of Claim 19, wherein said cell is a macrophage or lymphocyte.
- 15 21. The method of Claim 19, wherein said physiology is selected from:
  - a) a cellular calcium flux;
  - b) a chemoattractant response;
  - c) cellular morphology modification responses;
  - d) phosphoinositide lipid turnover; or
  - e) an antiviral response.
  - 22. The method of Claim 19, wherein:
    - a) said receptor is DC CR and said chemokine is MIP-  $3\alpha$ ;
    - b) said physiology is pulmonary physiology; or
    - c) said cell is an eosinophil.